

CLAIMS

1. A method for mounting a plurality of servo-amplifier modules for driving motors on a multishaft servo-amplifier, each of the plurality of servo-amplifier modules includes an identical shape and an identical function to each other and has semiconductor power elements, comprising:

preparing a multishaft interface substrate, that constitutes a multishaft servo-amplifier function unit for a host controller, as a base plate on which the plurality of multishaft servo-amplifier modules are mounted;

mounting the multishaft servo-amplifier modules on surfaces of the multishaft interface substrate in parallel therewith; and

mounting the multishaft servo-amplifier modules on the both surfaces of the multishaft interface substrate to efficiently mount the plural multishaft servo-amplifier modules on the multishaft interface substrate.

2. The method for mounting a plurality multishaft servo-amplifier modules according to claim 1, further comprising:

disposing connectors for connecting with the multishaft interface substrate on diagonally facing areas of the multishaft servo-amplifier module, disposing connectors for connecting with the multishaft servo-amplifier module on the both front and rear surfaces of the multishaft interface substrate in

a zigzag arrangement, and disposing the plurality of the multishaft servo-amplifier modules alternately on the front and the rear surfaces of the multishaft interface substrate such that the connectors for connecting with the multishaft servo-amplifier module do not interfere with each other; and

5 mounting the multishaft servo-amplifier modules on the same positions of the both surfaces of the multishaft interface substrate such that the multishaft interface substrate is sandwiched between each pair of the multishaft servo-amplifier modules, and mounting the multishaft servo-amplifier modules on the multishaft interface substrate in a side-by-side arrangement so as to efficiently mount the plural multishaft servo-amplifier modules on the multishaft interface substrate.

15 3. The method for mounting a plurality multishaft servo-amplifier modules according to claim 1, further comprising:

forming through holes used for fixation on the multishaft servo-amplifier modules to provide serially connected through holes formed by mounting the servo-amplifier modules on the same positions of the both surfaces of the multishaft interface substrate such that the multishaft interface substrate is sandwiched between each pair of the multishaft servo-amplifier modules; and

25 fixing the multishaft servo-amplifier modules to the multishaft interface substrate such that the multishaft

interface substrate is sandwiched between the pairs of the multishaft servo-amplifier modules using the serially connected through holes thus formed.

- 5 4. The method for mounting a plurality multishaft servo-amplifier modules according to any one of claims 1 to 3, further comprising:

 providing attachment flat surfaces and structures having sufficient degrees of flatness and parallelism and strength
10 for the multishaft servo-amplifier modules such that the multishaft servo-amplifier can be directly attached to and carried on a movable part of a machine with a decreased entire thickness of the multishaft servo-amplifier for the carrying surface of the movable part of the machine.

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